

# 3-Chloro-2-fluorobenzoic acid, tetradecyl ester

**Inchi:** InChI=1S/C21H32ClFO2/c1-2-3-4-5-6-7-8-9-10-11-12-13-17-25-21(24)18-15-14-16-19(20)  
**InchiKey:** QRWLCYZEXKQKY-UHFFFAOYSA-N  
**Formula:** C21H32ClFO2  
**SMILES:** CCCCCCCCCCCCCOC(=O)c1cccc(Cl)c1F  
**Mol. weight [g/mol]:** 370.93

## Physical Properties

Property code	Value	Unit	Source
gf	-221.57	kJ/mol	Joback Method
hf	-719.83	kJ/mol	Joback Method
hfus	53.47	kJ/mol	Joback Method
hvap	78.66	kJ/mol	Joback Method
log10ws	-8.17		Crippen Method
logp	7.337		Crippen Method
mvol	304.440	ml/mol	McGowan Method
pc	1134.43	kPa	Joback Method
rinpol	2624.00		NIST Webbook
rinpol	2624.00		NIST Webbook
tb	829.51	K	Joback Method
tc	1023.33	K	Joback Method
tf	480.56	K	Joback Method
vc	1.194	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	923.28	J/mol×K	829.51	Joback Method
cpg	940.14	J/mol×K	861.81	Joback Method
cpg	955.97	J/mol×K	894.12	Joback Method
cpg	970.79	J/mol×K	926.42	Joback Method
cpg	984.64	J/mol×K	958.72	Joback Method
cpg	997.57	J/mol×K	991.03	Joback Method
cpg	1009.59	J/mol×K	1023.33	Joback Method

# Sources

<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci9903071">http://pubs.acs.org/doi/abs/10.1021/ci9903071</a>
<b>Crippen Method:</b>	<a href="https://www.chemeo.com/doc/models/crippen_log10ws">https://www.chemeo.com/doc/models/crippen_log10ws</a>
<b>Joback Method:</b>	<a href="https://en.wikipedia.org/wiki/Joback_method">https://en.wikipedia.org/wiki/Joback_method</a>
<b>McGowan Method:</b>	<a href="http://link.springer.com/article/10.1007/BF02311772">http://link.springer.com/article/10.1007/BF02311772</a>
<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=U338891&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U338891&amp;Units=SI</a>

# Legend

<b>cpg:</b>	Ideal gas heat capacity
<b>gf:</b>	Standard Gibbs free energy of formation
<b>hf:</b>	Enthalpy of formation at standard conditions
<b>hfus:</b>	Enthalpy of fusion at standard conditions
<b>hvap:</b>	Enthalpy of vaporization at standard conditions
<b>log10ws:</b>	Log10 of Water solubility in mol/l
<b>logp:</b>	Octanol/Water partition coefficient
<b>mcvol:</b>	McGowan's characteristic volume
<b>pc:</b>	Critical Pressure
<b>rinpola:</b>	Non-polar retention indices
<b>tb:</b>	Normal Boiling Point Temperature
<b>tc:</b>	Critical Temperature
<b>tf:</b>	Normal melting (fusion) point
<b>vc:</b>	Critical Volume

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